

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: D. Weiner et al. : Art Unit:
Serial No.: 09/980,762 : Examiner:
Filed: September 3, 2002 :
For: MUTANT HUMAN CD80 AND :
COMPOSITIONS FOR AND
METHODS OF MAKING AND
USING THE SAME

EXPRESS MAIL LABEL NO: EV147609432US
DATE OF DEPOSIT: November 20, 2002

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

S I R :

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08A submitted herewith. A copy of each of the listed references is also enclosed.

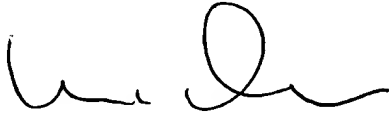
Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

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No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,



Mark DeLuca
Registration No. 33,229
Attorney for Applicants

Enclosures:

Form PTO-1449
Copy of (49) References
Search Report

Dated: *Nov 20, 2002*

Cozen O'Connor
1900 Market Street – The Atrium
Philadelphia, PA 19103
Tel: (215) 665-2000

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (Rev. 2-32) Information Disclosure Statement by Applicant (Use several sheets if necessary)	ATTY. DOCKET NO. UPAP-0495	SERIAL NO 09/980,762
	APPLICANT D. Weiner et al.	
	FILING DATE September 3, 2002	GROUP

U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	4,722,848	02/02/88	Paoletti et al.			
	4,736,866	04/12/88	Leder et al			
	4,873,191	10/10/89	Wagner et al.			
	4,945,050	01/31/90	Sanford et al.			
	5,017,487	05/21/91	Stunnenberg et al.			
	5,036,006	07/30/91	Sanford et al.			
	5,077,044	12/31/91	Stocker			
	5,110,587	05/05/92	Paoletti et al.			
	5,112,749	05/12/92	Brey, III et al.			
	5,174,993	12/29/92	Paoletti			
	5,223,424	06/29/93	Cochran et al.			
	5,225,336	07/06/93	Paoletti et al.			
	5,240,703	08/31/93	Cochran			
	5,242,829	09/07/93	Panicali et al.			
	5,294,441	03/15/94	Curtiss			
	5,294,548	03/15/94	Curtiss			
	5,310,668	05/10/94	Ellis et al.			
	5,387,744	02/07/95	Curtiss III et al.			
	5,389,368	02/14/95	Curtiss III			
	5,424,065	06/13/95	Curtiss III et al.			
	5,451,499	09/19/95	Cochran			
	5,453,364	09/26/95	Paoletti			
	5,462,734	10/31/95	Letchworth III et al.			
	5,470,734	11/28/95	Sondermeijer et al.			
	5,482,713	01/09/96	Paoletti			
	5,589,466	12/31/96	Felgher et al.			
	5,593,972	01/14/97	Weiner et al.			
	5,739,118	04/14/98	Carrano et al.			
	5,830,876	11/03/98	Weiner et al.			
	5,837,533	11/17/98	Boutin			
	5,942,607	08/24/99	Freeman et al.			

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Examiner	Date Considered
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (Rev. 2-32) Information Disclosure Statement by Applicant (Use several sheets if necessary)	ATTY. DOCKET NO. UPAP-0495	SERIAL NO 09/980,762
	APPLICANT D. Weiner et al.	
	FILING DATE September 3, 2002	GROUP

FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES NO
	90/11092	10/04/90	WO			
	94/16737	08/04/94	WO			
	93/17706	09/16/93	WO			
	96/10038	04/04/96	WO			
	95/26718	10/12/95	WO			
	93/23552	11/25/93	WO			

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

	1.	International search report for PCT/US00/11310 dated October 17, 2000.
	2.	Selvakumar et al., "Genomic Organization and Chromosomal Location of the Human Gene Encoding The B-Lymphocyte Activation Antigen B7," <i>PubMed</i> , 1992, abstract only.
	3.	Lanier et al., "CD80 (B7) and CD86 (B70) Provide Similar Costimulatory Signals for T Cell Proliferation, Cytokine Production, and Generation of CTL," <i>PubMed</i> , 1995, abstract only.
	4.	Azuma et al., "B70 Antigen is a Second Ligand for CTLA-4 and CD28," <i>Nature</i> , November 4, 1993, Vol. 366, pp. 76-79.
	5.	Freeman et al., "Structure, Expression, and T Cell Costimulatory Activity of the Murine Homologue Of the Human B Lymphocyte Activation Antigen B7," <i>J. Exp. Med.</i> , September 1991, Vol. 174, pp. 625-631.
	6.	Freeman et al., "A New Member of the Ig Superfamily with Unique Expression on Activated and Neoplastic B Cells," <i>The Journal of Immunology</i> , July 11, 1989, Vol. 143, pp. 2714-2722.
	7.	Howell et al., "Limited T-Cell Receptor β -Chain Heterogeneity Among Interleukin 2 Receptor-Positive Synovial T Cells Suggests a Role for Superantigen in Rheumatoid Arthritis," <i>Proc. Natl. Acad. Sci.</i> , December 1991, Vol. 88, pp. 10921-10925.
	8.	Kim et al., "Engineering of In Vivo Immune Responses to DNA Immunization Via Codelivery of Costimulatory Molecule Genes," <i>Nature Biotechnology</i> , July 15, 1997, Vol. 15, pp. 641-646.
	9.	Oksenberg et al., "Limited Heterogeneity of Rearranged T-Cell Receptor V α Transcripts in Brains of Multiple Sclerosis Patients," <i>Letters to Nature</i> , May 24, 1990, Vol. 345, pp. 344-346.
	10.	Paliard et al., "Evidence for the Effects of a Superantigen in Rheumatoid Arthritis," <i>Science</i> , July 19, 1991, Vol. 253, pp. 325-329.
	11.	Linsley et al., "Human B7-1 (CD80) and B7-2 (CD86) Bind with Similar Avidities but Distinct Kinetics to CD28 and CTLA-4 Receptors," <i>PubMed</i> , December 1994, Vol. 1, No. 9, abstract only
	12.	W. Williams, "Restricted Heterogeneity of T Cell Receptor Transcripts in Rheumatoid Synovium," <i>J. Clin. Invest.</i> , August 1992, Vol. 90, pp. 326-333.
	13.	Chaudhary et al., "A Rapid Method of Cloning Functional Variable-Region Antibody Genes in <i>Escherichia Coli</i> as Single-Chain Immunotoxins," <i>Proc. Natl. Acad. Sci.</i> , February 1990, Vol. 87, pp. 1066-1070
	14.	K. Wucherpfennig, et al., "Shared Human T Cell Receptor V β Usage to Immunodominant Regions Of Myelin Basic Protein," <i>Science</i> , 1990, Vol. 248, pp. 1016-1019.

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